

The abstract of the disclosure

Disclosed are a protein having a transglutaminase activity, which comprises a sequence ranging from serine residue at the second position to proline residue at the 331st position in an amino acid sequence represented by SEQ ID No. 1 wherein the N-terminal amino acid of the protein corresponds to serine residue at the second position of SEQ ID No. 1, a DNA encoding the protein, a transformant having the DNA, and a process for producing a protein having a transglutaminase activity, which comprises the steps of culturing the transformant in a medium. The protein can be produced in a large amount with the transformant using a host such as E. coli.